



1753
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TC 1700

[10191/1810]

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Heiner SCHEER et al.
Serial No. : 09/830,825
Filed : July 30, 2001
Title : SENSOR ELEMENT FOR DETERMINING THE OXYGEN
CONCENTRATION IN GAS MIXTURES
AND METHOD FOR ITS MANUFACTURE

9/w.m.
8/6/03

Art Unit : 1753

Examiner : Ta Hsung Tung

I hereby certify that this correspondence is being deposited with
the United States Postal Service as first class mail in an envelope
addressed to: Commissioner for Patents, P.O. Box 1450
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Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Date 7/28/03

Atty's Reg. # 41,172

Atty's Signature

LB Magistre
DERVIS MAGISTRE
KENYON & KENYON

TRANSMITTAL

SIR:

Transmitted herewith for filing in the above-identified patent application is an
Amendment.

This is also a Petition Under 37 C.F.R. § 1.136(a) to extend the three-month
response date by one month from June 28, 2003 to July 28, 2003.

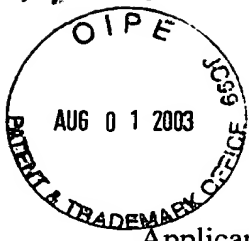
The Commissioner is authorized to charge the appropriate fee, which is
believed to be \$110.00 for the one-month extension, to Kenyon & Kenyon Deposit Account
No. **11-0600**, and is also authorized, as appropriate and/or necessary, to charge any additional
fees (including any other Rule 136(a) extension fees) or credit any overpayment to Kenyon &
Kenyon Deposit Account No. **11-0600**. A duplicate copy of this transmittal letter is enclosed
for these purposes.

Dated: 7/28/03

Respectfully submitted,
By: LB Magistre (Reg. No. 41,172)
By: *Richard L. Mayer*
Richard L. Mayer
(Reg. No. 22,490)

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LS Magistre
DERVIS MAGISTRE
KENYON & KENYON

AMENDMENT

SIR:

In response to the Office Action mailed on March 28, 2003, please reconsider the
above-identified application based on the following:

IN THE SPECIFICATION:

Please replace the paragraph beginning on page 2, line 27, with the following:

B1
--The effect of adapting the partition situated between the measuring gas chamber and the
reference gas channel on the geometry of the measuring electrode situated in the measuring
gas chamber, is such that only a small clearance exists between the measuring gas chamber
and the reference gas channel. Therefore, the internal resistance of the sensor-element
concentration cell is decreased. Furthermore, it is advantageous to design the reference
electrode, located in the reference gas channel, in such a manner that it adapts to the geometry
of the partition between the measuring gas chamber and the reference gas channel. Also the
surface of the reference electrode facing in the direction of the partition is as large as possible.
This permits a uniform loading of the entire electrode surface, and decreases the electrical
resistance of the concentration cell that is made of the measuring electrode and the reference